****

***CCNA (Cisco Certified Network Associate)***

***Duration:***

***Weekdays: Weekends:***

**Syllabus Overview:**

|  |  |
| --- | --- |
| * Fundamentals of Networking * OSI Reference Model and TCP/IP Protocol Suite * Functions of Transport Layer Protocols of TCP/IP * Functions of Internet Layer Protocol * IP Addressing V4 * IP Subnetting * Math Operations Used When Subentting * IP Routing * Three layer Hierarchical model * VLSM and Route Summarization * Auto Summarization * Packet delivery process * Managing Router Startup and Configuration * Router Configuration and Verification * Interface Configuration and Verification * Operating Cisco IOS * Device Configuration, IOS backup and Restoration * Different Forms of Routing * Link State Routing Protocol * Dynamic Routing Protocol * Advanced Dynamic Routing Protocols * AAA Configuration * OSPF * Fundamentals of LANs * LAN Switching * Ethernet Switch Configuration * Configuring the Switch for Remote Access * Port Security * Troubleshooting LAN Switching | * VLAN and Trunks * Dynamic Trunking Protocol (DTP) * VLAN Trunking Protocol (VTP) * Preventing Bridging Loops * Spanning Tree Protocol * PVST * RPVST * Inter VLAN Routing * Access Control List * Standard ACL Operation * Extended ACL Operation * ACL Editing and Troubleshooting * Conserving IP Address Space * Network Address Translation (NAT) * Static NAT * Dynamic NAT * Port Address Translation (PAT) * IP version 6 * IPV6 Routing * Different WAN Technologies * Advanced Wide Area Network * SDWAN * Virtual Private Network * Wireless Network Technologies * Network Automation Basic * Securing the Router CLI * Remote Access to the router using Telnet and SSH * Network Utilities * Troubleshooting Routing Protocols |

*For More Information pl visit* [**www.iihtvadapalani.com**](http://www.iihtvadapalani.com)

**“We Bring Success To You” “Success Simplified”**

IIHT-Vadapalani, No. 321, IInd Floor, Doshi Gardens, Arcot Road, Vadapalani, Chennai – 600026.

**Ph: 9677055562/044-43069570**. Email Id: info@iihtvadapalani.com / Website: iihtvadapalani.com